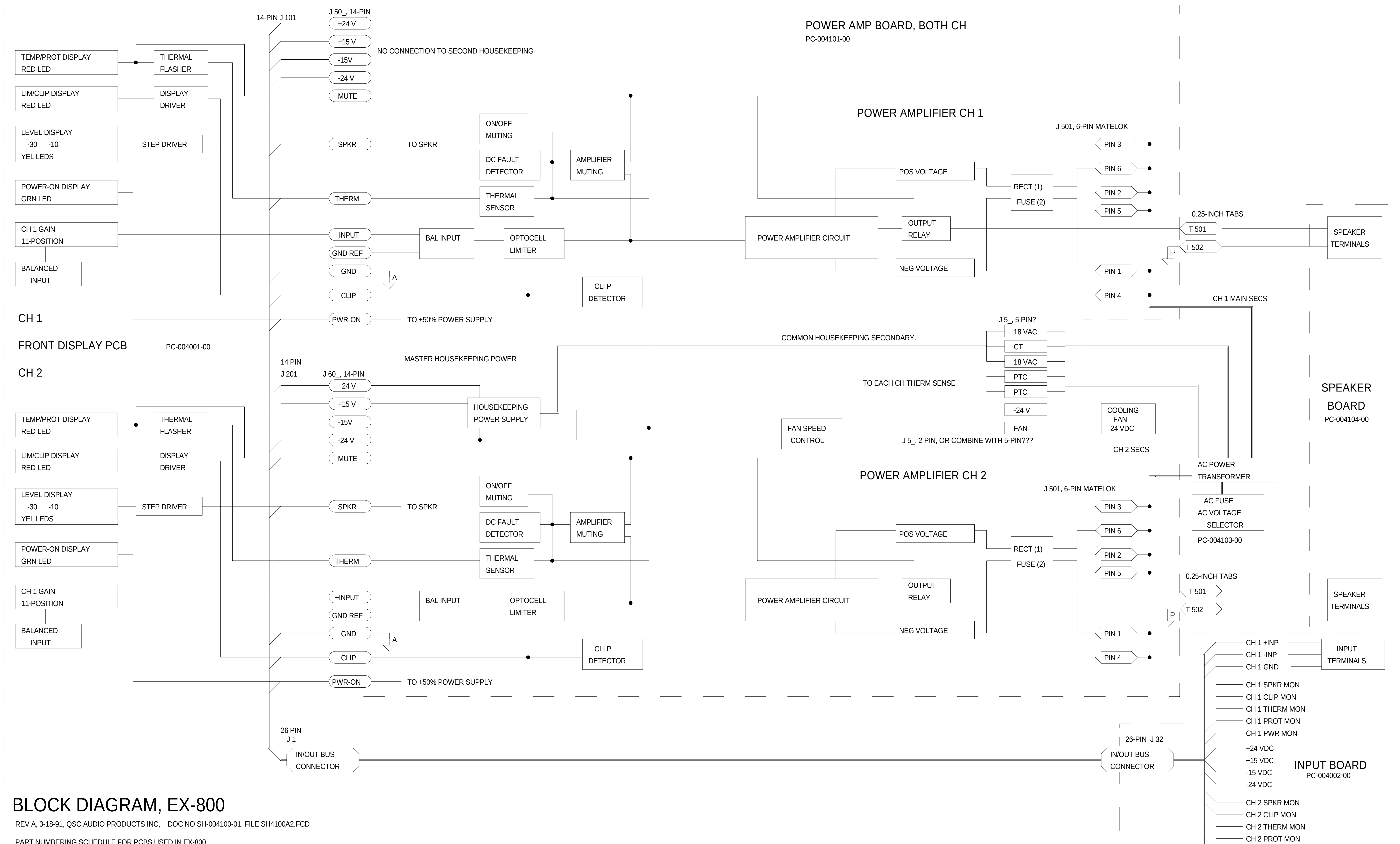


BLOCK DIAGRAM, EX-800

REV A, 3-18-91, QSC AUDIO PRODUCTS INC, DOC NO SH-004100-01, FILE SH4100A2.FCD

PART NUMBERING SCHEDULE FOR PCBS USED IN EX-800

REVISIONS

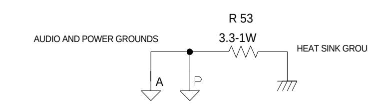
ZONE	REV	DESCRIPTION	DATE	APPROVED
	B	PROD RELEASE PER ECO 1107 GLF	5-29-91	SGM
	C	REVISED PER ECO 1158	7-9-91	W.R. / SGM
	D	REVISED PER ECO 1128 RDS	7-26-91	SGM
	E	REVISED PER ECO 1262	11-6-91	SGM
	F	REVISED PER ECO 1508 SGM	6-10-92	SGM
	G	REVISED PER ECO 1602 WR	10-22-92	SGM / RAB
	H	REVISED PER ECO 2009	5-11-94	SGM
	J	REVISED PER ECO 2371 MP (EFF. 7-28-94)	7-20-94	SGM
	K	REVISED PER ECO 2393 MP (EFF. X-28-94)		

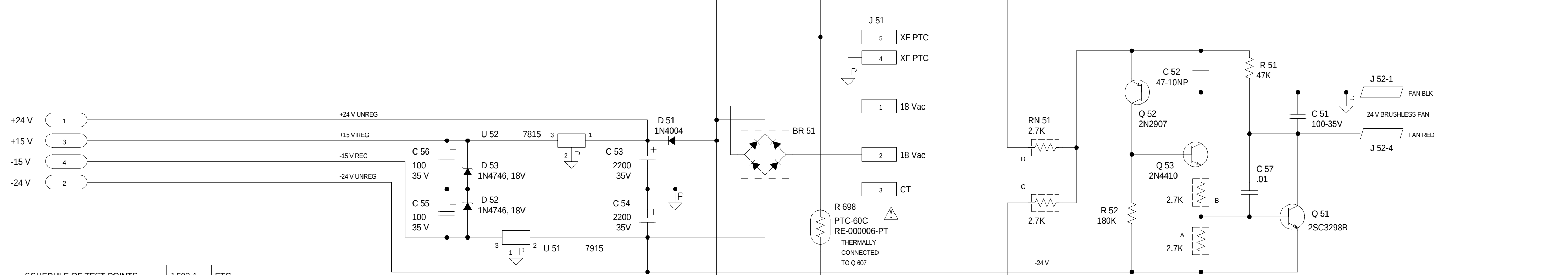
+23V ON/OFF ENABLE | TO SHEET 2 | TRANSFORMER THERMAL SENSOR | THERMAL BUS TO FAN SPEED CONTROL

SCHEMATIC, 2-CH POWER AMPLIFIER, EX 800

REV D, 10-22-92, FOR PC-004101-00
DOC NO SH-004101-02 FILE NO SCH800G*.FCD

SHEET 1, HOUSEKEEPING POWER AND FAN SPEED CONTROL





SCHEDULE OF TEST POINTS J 502-1 ETC

CH-1	CH 2	
J 502-1	J 602-1	NEGATIVE LIMITING VOLTAGE
J 502-2	J 602-2	POSITIVE LIMITING VOLTAGE
J 502-3	J 602-3	NOT USED
J 502-4	J 602-4	AMPLIFIER LOOP OPAMP OUTPUT
J 502-6	J 602-6	POS AMPLIFIER RAIL--HIGH VOLTAGE
J 502-8	J 602-8	NEG AMPLIFIER RAIL--HIGH VOLTAGE

PART NUMBERING SCHEDULE FOR PCBS USED IN EX-1600:

PCB NUMBER	DESCRIPTION	CH 1 PARTS	CH 2 PARTS	PARTS IN COMMON
PC-004001-00	DISPLAY PCB	101-199	201-299	1-29
PC-004002-00	INPUT PCB	301-399	401-499	31-49
PC-004101-00	AMP PCB	501-599	601-699	51-69
PC-004104-00	SPKR PCB	701-799	801-899	71-99
PC-004103-00	AC PCB	901-UP (SAME BOARD FOR CH 1, CH2)		

NOTES.
1. ALL RESISTORS 1/4-WATT, 5% UNLESS NOTED.
2. ALL CAPACITORS 100V UNLESS NOTED.
TOLERANCE 20% FOR ELECTROLYTIC TYPES, 10% ON OTHER TYPES.
3. BRIDGE RECTIFIER BR 51, 1.5A, 100V.
4. R 598, 698 IS POSITIVE TEMPERATURE COEFFICIENT RESISTOR MOUNTED TO HEAT SINK.
RESISTANCE 100 OHM COLD, RISING AT 55 C. QSC P/N RE-000006-PT
5. PARTS MARKED WITH TRIANGLE MUST BE REPLACED WITH EXACT TYPE ONLY.
125 W, 60 V MINIMUM, ON-RESISTANCE 0.030 OHMS MAX.
6. ZENERS D 503, 504, 603, 604 MARKED 7.5 V TESTED FOR LOW LEAKAGE, QSC P/N QD-0007.5-ZT.
7. ZENERS D 509, 513, 609, 613, 6.2V-500mW, TESTED FOR LOW LEAKAGE, QSC P/N QD-000024-QD.
8. PARTS ENCLOSED WITHIN DOTTED OUTLINE HAVE VOLTAGES GREATER THAN 42V.

+23V ON/OFF ENABLE | TO SHEET 3 | TRANSFORMER THERMAL SENSOR | THERMAL BUS TO FAN SPEED CONTROL

LAST USED REF. DESIGN.

BR 51, BR 502, 602
C51 - 57, C526, 626
D51 - 53, D513, 613
F504, 604
J51, 52, J503, 603
K501, 601
L501, 601
Q51 - 53, Q510, 610
R51 - 53, R544, 644, R598, 698, R599, 699
RN51, RN502, 602
U51, 52, U506, 606
VR503, 603

PARTS LIST

WP-004101-20	EX800
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS +/- DECIMALS .XX +/- .XXX +/- ANGLES +/-
MATERIAL
FINISH
DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
DRAWN	PHQ	5-15-91
CHECKED	SA/SGM	5-29-91
ISSUED		

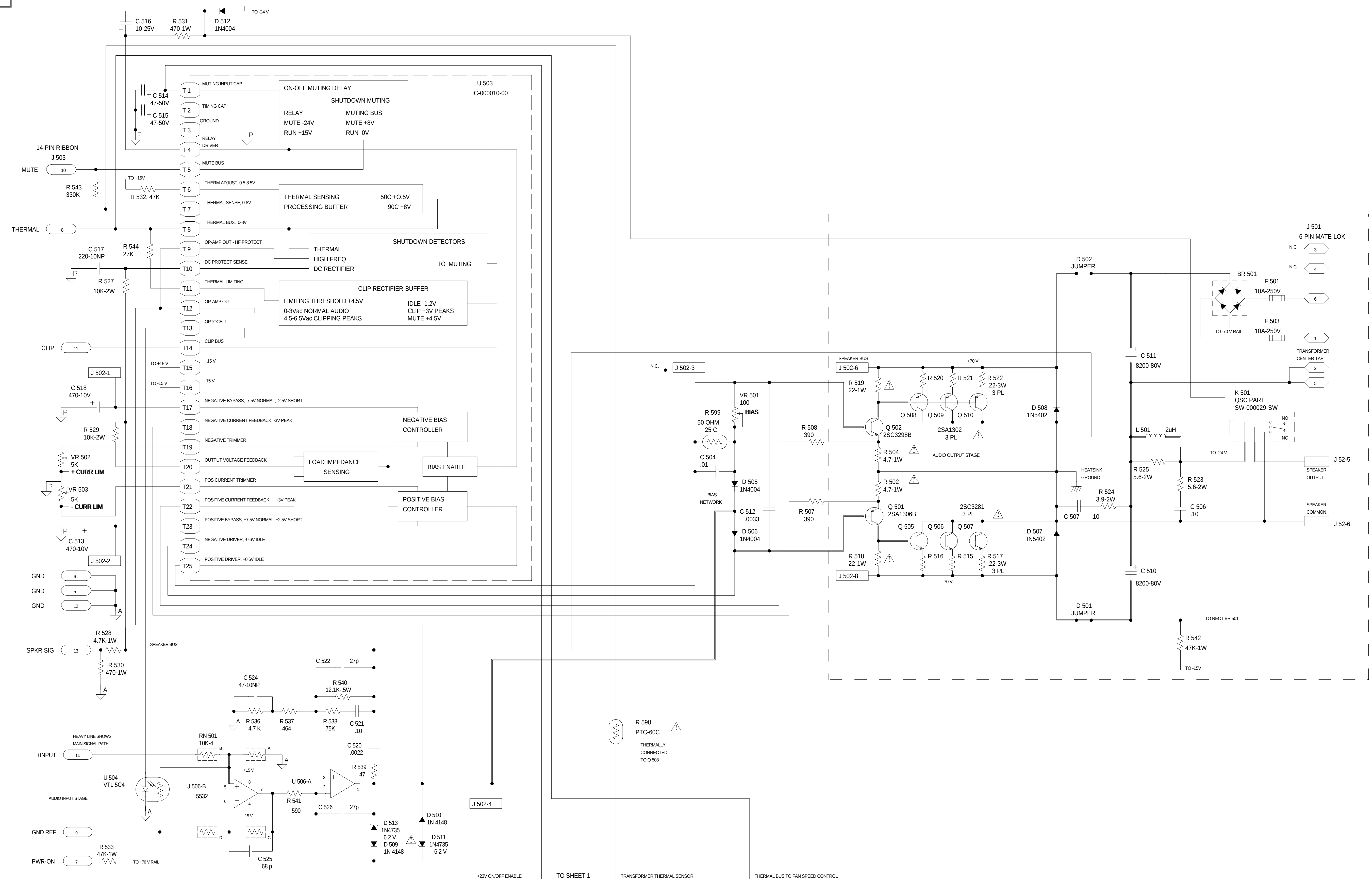
SCH800J1.FCD

QSC AUDIO PRODUCTS
COSTA MESA, CALIFORNIA

SCHEMATIC EX 800
DRAWING

SIZE D | FSCM NO. | DWG NO. SH-004101-02 K | REV
SCALE | SH0800K1.FCD | SHEET 1 OF 3

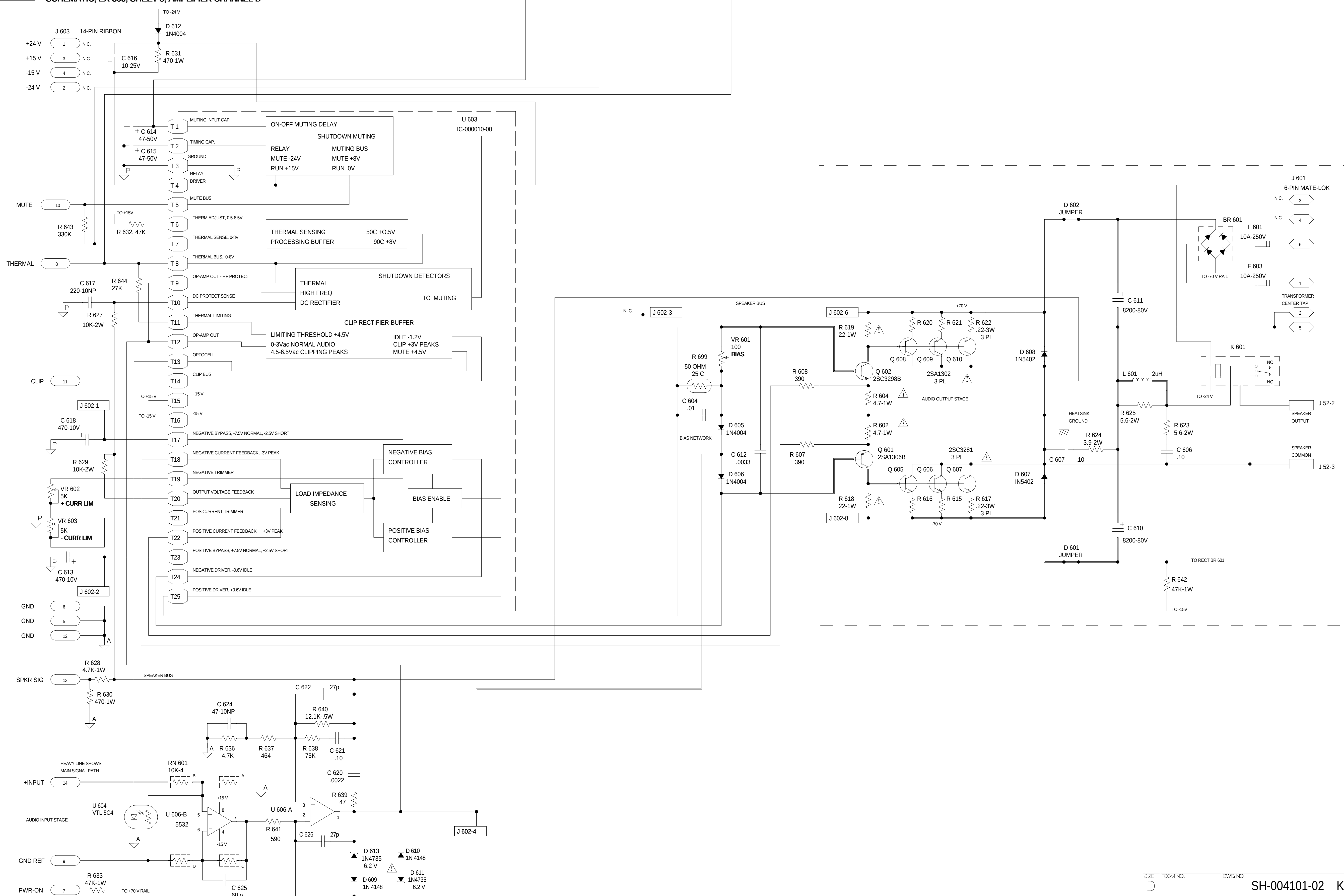
SCHEMATIC, EX-800, SHEET 2, AMPLIFIER CHANNEL A



SIZE	FSCM NO.	DWG NO.	REV
D		SH-004101-02	K
SCALE	SH0800K2.FCD	SHEET 2 OF 3	

DWG.NO. SH-004101-02 3 K

SCHEMATIC, EX-800, SHEET 3, AMPLIFIER CHANNEL B



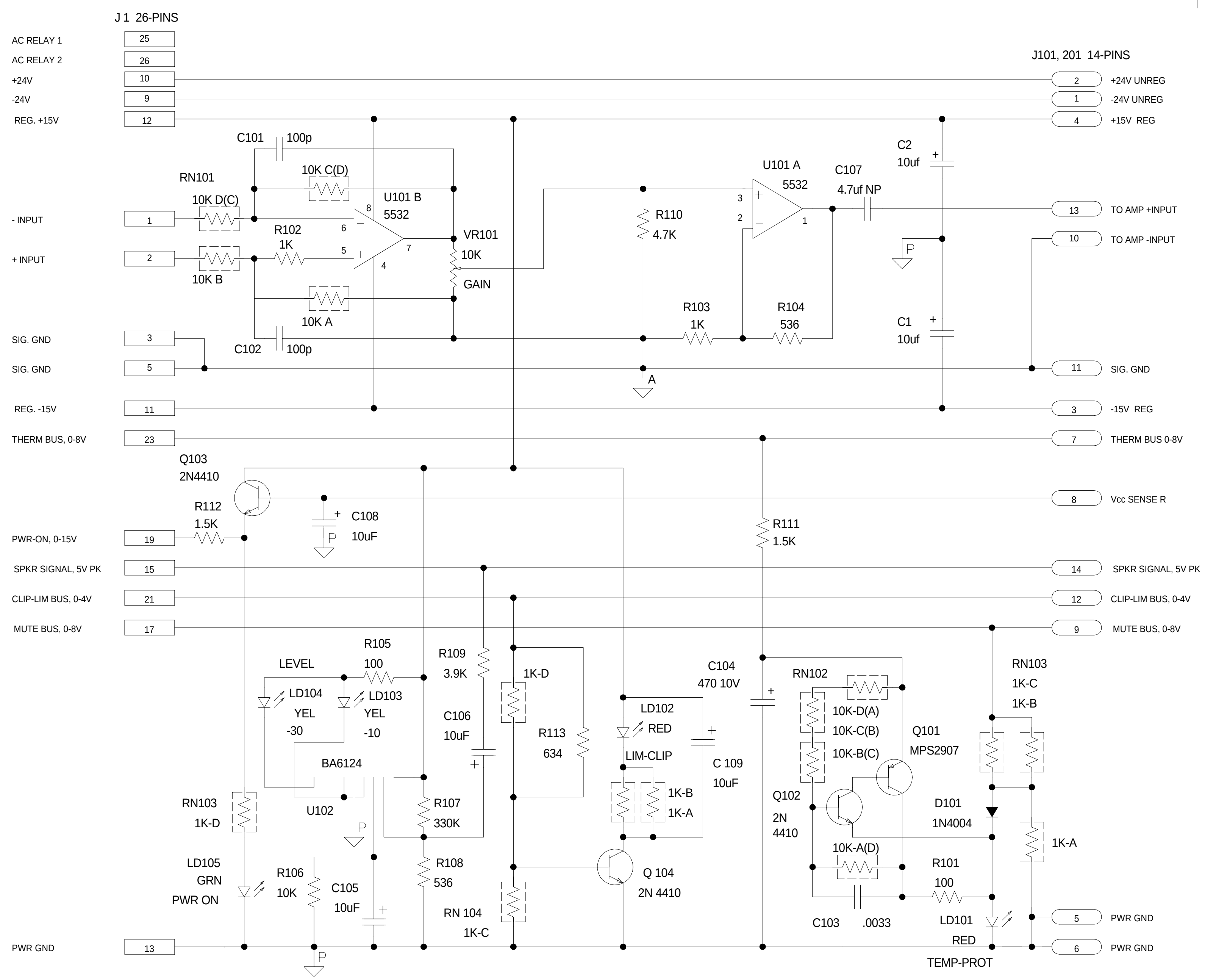
SIZE	FSCM NO.	DWG NO.	REV
D		SH-004101-02 K	
SCALE	SH0800K3.FCD	SHEET 3 OF 3	

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SCHEMATIC, EX-SERIES DISPLAY BOARD.

PC-004001-00, REV A.

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	PROD REL PER ECO 756	6-19-90	
	B	REVISED PER ECO 1603 WR	9-29-92	



CH 2 PINS

- INPUT	4
+ INPUT	6
SIG. GND	7
SIG. GND	8
THERM BUS, 0-8V	24
PWR-ON, 0-15V	19
SPKR SIGNAL, 5V PK	16
CLIP-LIM BUS, 0-4V	22
MUTE BUS, 0-8V	18
PWR GND	14

NOTES

1. ALL RESISTORS 1/4 WATT UNLESS SPECIFIED.
2. ALL CAPACITORS 25V UNLESS SPECIFIED.
3. CH 2 RESISTOR NETWORK SECTIONS ( ) WHEN DIFFERENT.
4. CH 1 COMPONENTS NUMBERED 101-199
5. CH 2 COMPONENTS NUMBERED 201-299.
6. PARTS IN COMMON TO BOTH CHANNELS NUMBERED 1-99.
7. U102, 202 ROHM BA6124 OR SAMSUNG KA2284/85
8. LD 101, 102, HIGH-EFFICIENCY RED LED.
9. LD 103, 104, HIGH-EFFICIENCY YELLOW LED.
10. LD 105, HIGH-EFFICIENCY GREEN LED.

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:

FRACTIONS +/- DECIMALS .XX +/- .XXX +/- ANGLES +/- °

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS | DATE

DRAWN PAT QUILTER 6-19-90

CHECKED

ISSUED

FCAD: 004001SH

QSC AUDIO PRODUCTS
COSTA MESA, CALIFORNIA

SCHEMATIC DIAGRAM
EX-SERIES DISPLAY BOARD

SIZE C | FSCM NO. | DWG NO. SH-004001-00 B | REV

SCALE | SH4001B1.FDC | SHEET 1 OF 1

DWG NO. SH-004001-00 1 B

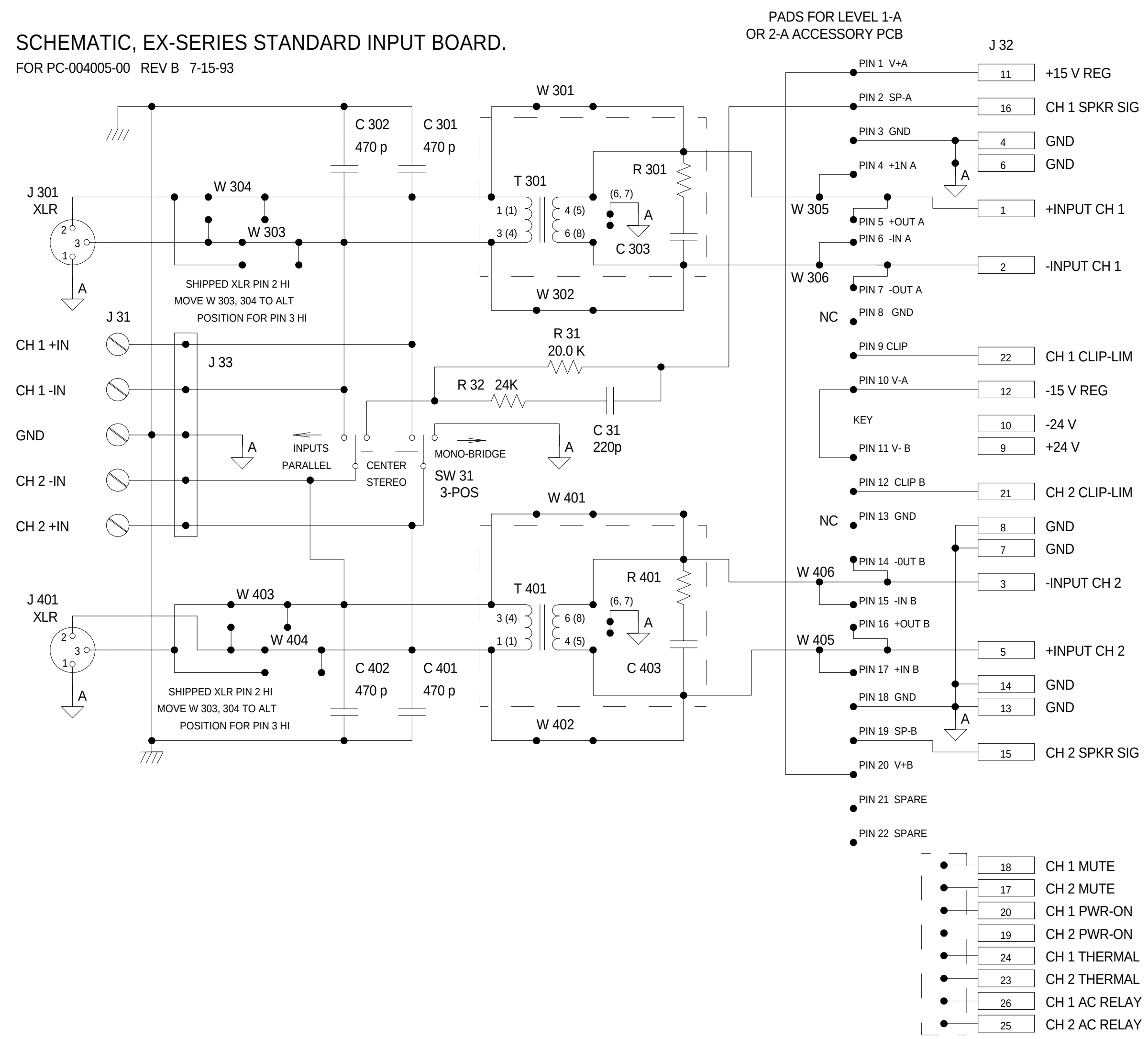
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REVISIONS

ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	PROD REL PER ECO 756		
	B	CHANGE VALUE R31, WAS 21 K SEE ECO 1097	6-10-91	SGM
	C	REVISED FOR MIN-SLOT, BR-SW SEE ECO 1297 BY PHQ	1-24-92	SGM
	D	REVISE PER ECO 1916 LG.		

SCHEMATIC, EX-SERIES STANDARD INPUT BOARD.

FOR PC-004005-00 REV B 7-15-93



NOTES, ALL REV LEVELS

1. ALL RESISTORS 1/4W, 5%.
2. ALL CAPACITORS 100V
3. J 32, 26-PIN CONNECTOR, TO J 1 ON FRONT DISPLAY BOARD PC-004001-00.
4. PARTS FOR CH 1 NUMBERED 301-399.
5. PARTS FOR CH 2 NUMBERED 401-499.
6. PARTS IN COMMON TO BOTH CHANNELS NUMBERED 31-49.
7. BOARD SHIPPED WITH W 301-304, W 401-404 MOUNTED AS SHOWN.
8. PARTS WITHIN DOTTED OUTLINE FOR USER MODIFICATION. SEE MANUAL.

NOTES, REV LEVELS A-B

1. THE FIRST YEAR OF PRODUCTION EX AMPLIFIERS SHIPPED WITH PC-004002-00 REV A OR B
2. FOR PC-004005-00 REV A, ADDED PADS 1-20 FOR LEVEL 1-A, 2-A INPUT ACCESSORY PCB
3. ADDED J33, 5-PIN INPUT EXTENDER HEADER AND W305,306,405 & 406.
4. NO CHANGE IN PINOUT OF J32, PINS 1-26
5. SW-31 WAS REVISED ON PC-004005-00 REV A, BUT WILL NOT AFFECT FUNCTION OF UPPER SLOT PCB.

NOTES: UNLESS OTHERWISE SPECIFIED

NEXT ASSY	USED ON
PC-004005-00	EX/MPA SERIES

APPLICATION

PARTS LIST

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSIONS PER ANSI Y14.5-1982

TOLERANCES ARE: DECIMALS .XX ± DECIMALS .XXX ± ANGLES ±

DEBURR EDGES .XXX R MAX

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS	DATE
DRAWN PAT QUILTER	6-18-90
CHECKED	
ISSUED	

CAD SEED FILE NO. SH40002C1.FCD

QSC AUDIO PRODUCTS, INC.

COSTA MESA, CALIFORNIA

SCHEMATIC DIAGRAM EX SERIES STANDARD, INPUT BOARD

SIZE C | FSCM NO. | DWG NO. SH-004002-00 | REV D

SCALE NONE | CAD FILE NO. SH4002D1.FCD | SHEET 1 OF 1